

What is claimed is:

1        1. A method of communications between first and second wireless networks,  
2 comprising:

3                receiving data containing a private network address of a first node in the  
4 first wireless network;

5                translating the private network address to a public network address; and  
6                sending data containing the public network address translated from the  
7 private network address to a second node in the second wireless network.

1        2. The method of claim 1, wherein the received data comprises a data packet,  
2 and wherein translating the private network address comprises translating the private  
3 network address in a header of the data packet.

1        3. The method of claim 2, wherein translating the private network address  
2 further comprises translating the private network address in a payload portion of the data  
3 packet.

1        4. The method of claim 1, wherein receiving data comprises receiving data  
2 containing a General Packet Radio Service Tunneling Protocol data unit.

1        5. The method of claim 1, wherein receiving data comprises receiving data  
2 from a Serving General packet radio service Support Node in the first wireless network,  
3 the first node comprising the Serving General packet radio service Support Node.

1        6. The method of claim 5, wherein sending data comprises sending data to a  
2 Gateway General packet radio service Support Node, the second node comprising the  
3 Gateway General packet radio service Support Node.

1        7. The method of claim 1, further comprising determining whether to  
2 establish a data session on a packet data network on behalf of a roaming mobile station  
3 through the first wireless network or the second wireless network.

1        8.     The method of claim 7, wherein the receiving, translating, and sending  
2 acts are performed by a network element between the first and second wireless networks.

1        9.     The method of claim 1, wherein the translating is performed by a network  
2 address translator.

1        10.    An article comprising at least one storage medium containing instructions  
2 that when executed cause a system to:

3            receive a packet having a header portion and a payload portion from a first  
4 node in a first wireless network, the payload portion containing a private network address  
5 of the first node;

6            translate the private network address in the header portion and in the  
7 payload portion to a public network address; and

8            send the packet containing the public network address to a second node in  
9 a second wireless network.

1        11.    The article of claim 10, wherein the instructions when executed cause the  
2 system to send the packet containing the public network address in the header portion of  
3 the packet and the payload portion of the packet.

1        12.    The article of claim 10, wherein the instructions when executed cause the  
2 system to translate the private network address in the payload portion by identifying a  
3 string in the payload portion containing the private network address.

1        13.    The article of claim 10, wherein the instructions when executed cause the  
2 system to receive the packet containing General Packet Radio Service Tunneling Protocol  
3 data.

1        14.    The article of claim 10, wherein the instructions when executed cause the  
2 system to receive the packet from a Serving General packet radio service Support Node

3 in the first wireless network, the first node comprising the General Packet Radio Service  
4 support node.

1 15. The article of claim 14, wherein the instructions when executed cause the  
2 system to send the packet to a Gateway General packet radio service Support Node in a  
3 second wireless network.

1 16. The article of claim 15, wherein the instructions when executed cause the  
2 system to receive the packet from the Serving General packet radio service Support Node  
3 associated with a first public land mobile network and to send the packet to the Gateway  
4 General packet radio service Support Node associated with a second public land mobile  
5 network.

1 17. The article of claim 10, wherein the instructions when executed cause the  
2 system to receive the packet from the first wireless network associated with a first  
3 network operator and to send the packet to a node in a second wireless network  
4 associated with a second network operator.

1 18. A system comprising:

2 an interface to a first wireless network, the interface adapted to receive a  
3 data packet containing a header portion and a payload portion, the payload portion  
4 containing a first network address of a node in the first wireless network; and

5 a network address translator module adapted to translate the first network  
6 address to a second, different network address associated with the node.

1 19. The system of claim 18, further comprising a controller adapted to send  
2 the data packet containing the second network address to a second wireless network.

1 20. The system of claim 19, wherein the first wireless network is associated  
2 with a first network operator and the second wireless network is associated with a second  
3 network operator.

1           21. The system of claim 18, wherein the interface is adapted to receive the  
2 data packet comprising an Internet Protocol packet.

1           22. The system of claim 21, further comprising a controller adapted to send  
2 the data packet containing the second network address to a second wireless network, the  
3 data packet comprising an Internet Protocol packet.

1           23. The system of claim 18, wherein the interface is adapted to receive the  
2 data packet having a General Packet Radio Service Tunneling Protocol data unit in the  
3 payload portion of the data packet.

1           24. The system of claim 18, wherein the first network address comprises a  
2 private network address of the node, and wherein the second network address comprises a  
3 public network address of the node.

1           25. A data signal embodied in a carrier wave and comprising instructions that  
2 when executed cause a system to:

3           perform one-to-one translation of a private network address and a public  
4 network address in a packet received from a first wireless network, the private and public  
5 network addresses associated with a node in the first wireless network; and

6           send the packet with a translated network address to a second wireless  
7 network.